

**Table of Available Implementation Tools for Miscellaneous Metal Parts, subpart MMMM
(last updated 9/16/2004)**

This table provides a list of available implementation tools that have been developed and that are not otherwise identified on the Air Toxics Website (ATW) Misc. Metal webpage. An internet search was performed using key words such as "Miscellaneous Metal," "Subpart MMMM," etc. to obtain this information. The file contains a brief overview of the tool and where it is available.

	Type*	Tool/Resource Title	Tool/Resource Description	Tool Location and Numbers	State/Region
1	C/I	Self-Audit and Inspection Guide for Facilities Conducting Cleaning, Preparation, and Organic Coating of Metal Parts	An audio-visual tool on CD-ROM and accompanying written guidance lead users through a virtual facility which conducts organic finishing (painting) of metal parts using video and animation. The guide identifies conventional process steps, associated equipment, potential point source releases or waste generation activities, federal regulatory requirements, common causes of violation, and pollution prevention opportunities.	www.epa.gov/Region2/p2/metal.s.htm (202) 564-7013 or throwe.scott@epa.gov EPA-305/B-95-002	Region 2
2	C	Environmental Research Brief: Waste Minimization Assessment for a Manufacturer of Finished Metal and Plastic Parts	Technical summary of the status, results, and major advances in research of waste minimization.	http://www.epa.gov/ORD/Briefs/600s94005.pdf	
3	C	Pollution Prevention in Metal Painting and Coating Operations: A Manual for Technical Assistance Providers	Manual provides detailed information for technical assistance providers on the metal coatings process and pollution prevention options and alternatives. Available from the Pollution Prevention Information Clearinghouse.	Http://www.epa.gov/opptintr/library/ppicdist.htm EPA-749/B-98-002	

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4	C	Pollution Prevention for the Metal Finishing Industry: A Manual for Technical Assistance Providers	Manual provides detailed information for technical assistance providers on metal finishing and pollution prevention options and alternatives. Available from the Pollution Prevention Information Clearinghouse.	www.epa.gov/opptintr/library/ppicdist.htm EPA-742/B-97-005	
5	C	EPA Guides to Pollution Prevention	Several publications available for download provide guidance on pollution prevention: <ul style="list-style-type: none"> • Alternative Metal Finishes • Organic Coating Removal • Organic Coating Replacements • Pollution Prevention in the Paints and Coatings Industry • The Fabricated Metal Industry 	http://oaspub.epa.gov/pls/ceripubs/ceripubs.SEARCH (Look under Pollution Prevention)	
6	C	Slideshow: RCRA Compliance for Metal Finishing Facilities (1998)	This 20 minute slide show provides an overview of RCRA compliance and P2 for the metal finishing industry. To purchase or rent call	To Order call (617) 367-8558 or email nepr@tiac.net	
7	C	EPA's Design for the Environment (DfE) program	Outreach tools provided under the Design for the Environment (DfE) Program. Some of the information on the Printed Wiring Board sector also may be applicable to Misc. Metal Parts.	www.epa.gov/dfe/pubs/pwb/ctsa surf/draft/pwb-pub.htm	

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8	C/I	National Metal Finishing Resource Center (NMRC)	Compliance assistance center website providing easy access to technical and regulatory information affecting the metal finishing industry. Provides information on products and services, environmental regulations, compliance strategies, pollution control methods, and advice on selected topics.	www.nmfrc.org Project Contact: Scott Throwe, U.S. EPA, 202-564-7013.	
9	C	Energy-Environment-Manufacturing Technology Reinvestment Project (EEM-TRP)	<p>Project that is a voluntary effort between industry, federal agencies, DfE, and other parties that fosters the integration of environmental protection functions into the basic business-oriented activities of metal fabricating shops, includes providing information about less polluting materials and process alternatives.</p> <p>The website currently contains the following two documents that are potentially useful to metal parts coating:</p> <p>1) "Guide to Pollution Prevention, The Metal Finishing Industry." EPA/625/R-92/011. Focus Areas: waste reduction for metal finishers. Extensive questionnaires on material handling, material substitution, operational practices, drag-out, management practices and reuse and recovery, including worksheets to generate options.</p> <p>2) "Hazardous Waste Reduction Checklist & Assessment Manual for the Metal Finishing Industry." California Dept of Health Services, Toxic</p>	www.iti.org/ee/eem/toolbib/enviro.htm EEM-TRP Project contact: Michigan Manufacturing Technology Center, 47911 Halyard, Plymouth, Michigan 48170. TEL:1-888-414-6682, Fax: 734-254-9290.	

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			<p>Substances Control Program, Alternative Technology Division, 1993.</p> <p>The website also contains many other general documents that are potentially useful such as: “A Practical Guide to Toxics Use Reduction,” “A Primer for Financial Analysis of Pollution Prevention Projects,” “Business Waste Reduction - Creating an Action Plan,” “Expert System Support for Environmentally Conscious Manufacturing, “EcoSys” (TM),” “Facility Pollution Prevention Guide” (EPA/600/R-92/088).</p>		
10	C	Common-Sense Initiative: Metal Finishing Sector	<p>The Common Sense Initiative (CSI) is an innovative approach to environmental protection and pollution prevention developed by the U.S. EPA. The CSI addresses environmental management by industrial sector rather than by environmental medium (air, water, land). The EPA selected six industries /sectors to serve as CSI pilots, of which metal finishing is one. The sector subcommittees consist of representatives from industry, environmental justice organizations, labor organizations, environmental organization, federal, state, and local governments, and address environmental issues facing these industries to promote pollution prevention strategies that are environmentally and economically beneficial.</p> <p>The following projects are potentially relevant to</p>	<p>www.epa.gov/ORD/NRMRL/std/mtb/metal_finishing.htm</p> <p>CSI Contact: TEL: 202-260-7417, U.S. EPA MC 6101, 401 M Street SW, Washington, DC 20460</p> <p>RIIT Project Contacts: Matthew Leopard, U.S. EPA, 202-260-2468, Mindy Gampel, U.S. EPA, 202-260-2748</p> <p>MFFTP Project Contacts: Mark Mahoney, U.S. EPA, 617-565-1155, (CT & RI projects); Bob</p>	

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			metal finishing: National Metal Finishing Resource Center (NMFRC)--see detail below; Regulatory Information Inventory Team Evaluation (RIITE) Program; Metal Finishing 2000 Flexible Track Projects (MFFTP); Metal Finishing Guidance Manual; Chromium Pollution Prevention Technology Demonstration; National Metal Finishing Environmental R&D Plan; POTW Training, Education, and Incentives Program; RCRA Metal Finishing Wastewater Sludge Project; Environmentally Responsible Site Transition for Tier 3 Firms; Approaching Zero Discharge Demonstration Project; Tier 4 Facility Enforcement Project; Environmental Technology Verification (ETV) Project; and Access to Capital Project.	<p>Benson, U.S. EPA, 202-260-8668, (MI project)</p> <p>Guidance Manual Project Contact: Bob Benson, U.S. EPA, 202-260-8668</p> <p>Chromium Project Contact: David Ferguson, U.S. EPA, 513-569-7518 R&D, Zero Discharge, and ETV Projects Contact: Paul Shapiro, U.S. EPA, 202-260-4969</p> <p>POTW Project Contact: Patrick Bradley, U.S. EPA, 202-260-6963</p> <p>RCRA Project Contact: Jim Lounsbury, U.S. EPA, 703-308-8463</p> <p>Tier 3 and Capital Projects Contact: Scott Dosick, U.S. EPA, 202-260-9211.</p> <p>Tier 4 Project Contact: Scott Throwe, U.S. EPA, 202-564-7013</p>	

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11	C	Sector Notebook - Fabricated Metal Products Industry	Describes a comprehensive environmental profile, industrial process information, pollution prevention techniques, pollutant release data, regulatory requirements, compliance/enforcement history, government and industry partnerships, innovative programs, contact names bibliographic references, and description of research methodology the fabricated metal products industry.	www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/index.html	
11a	C/E/I	Fabricated Metal Products and Metal Finishing site	Website contains links to documents and industry related to fabricated metal products and metal finishing site.	http://es.epa.gov/oeca/metd/met-fin.html	
12	C	Summary - Paints, Varnishes, Lacquers, Enamels, and Allied Products Manufacturing Statutory and Regulatory Summaries	Identifies and clarifies industry- specific regulatory information necessary to conduct a self-assessment.	www.epa.gov/Compliance/resources/publications/assistance/sectors/paint.pdf EPA-305-S97-005	
13	C/I	Paints and Coatings Resource Center	Compliance assistance center website providing regulatory compliance and pollution prevention information to organic coating facilities, industry vendors and suppliers, and others.	www.paintcenter.org	
14	C	Coatings Guide (TM)	This website contains pollution prevention tools for paints and coatings users to help identify low-VOC/HAP coatings that may serve as drop-in replacements for existing coating operations.	www.cage.rti.org	

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15	C	Solvent Alternatives Guide (SAGE)	SAGE is a comprehensive guide designed to provide pollution prevention information on solvent and process alternatives for parts cleaning and degreasing. SAGE does not recommend ssany ozone depleting chemicals. SAGE was developed by the Surface Cleaning Program at Research Triangle Institute in cooperation with the U.S. EPA Air Pollution Prevention and Control Division (APPCD).	http://clean.rti.org/index.cfm	
16	C	Coatings Care (TM) Community: Responsibility Implementation Guide and Electronic Resource Guide	Available for NPCA members only	www.paint.org/index.html	
17	C	P2IRIS	The Pollution Prevention Information Resource for Industry Sectors (P2IRIS) is an internet-based process improvement tool for the electroplating, printing and metal painting industries. It is designed to help identify and implement industry-proven techniques that achieve both manufacturing process and bottom line improvement through pollution prevention. The system provides a walk-through of manufacturing processes featuring descriptive text and process illustrations, flow diagrams linked to material balances, applicable waste reduction techniques, case studies and vendors, and links to on-line internet resources.	www.techsolve.org/p2iris/home.htm For more information, contact Greg Hume at 513-948-2017.	

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	C	A Guide for Reducing Air Pollution from Spray Coating Operations	An 8-page booklet explaining how VOC's enter and harm the environment through coatings and how various processes make VOC's more reactive. It points out common failures in regulated equipment that reduce efficiency in preventing pollution. It also describes alternative coating systems and other opportunities for pollution prevention.	Maricopa County Environmental Services, Air Quality Program 2406 S. 24 th St., Suite E-111 Phoenix, AZ 85034 (606) 506-6138	AZ
18	C/I	Pollution Prevention Amendment Guidance Manual	A 93-page manual for pollution prevention plans to protect the environment while improving profits and safety. The purpose of the manual is to help clients prepare and submit plans that meet the requirements in the Arizona Revised Statutes 49-961 <i>et. seq.</i> in the most simple and direct way. The manual is neither rule nor law. The goal is to minimize paperwork deficiencies and maximize environmental improvements.	www.adeq.state.az.us/environ/waste/p2/download/amd.pdf	AZ
19	C	Surface Coating of Metal and Plastic Parts and Products Handbook	Self-inspection document for industry from the State of California Air Resources Board.	www.arb.ca.gov/cap/handbks.htm (for ordering information)	CA
20	C/E	Metal Parts and Products Surface Coating Operations Technical Manual	A comprehensive reference document of the industry from the State of California Air Resources Board for use by the environmental engineer and local district air pollution inspector.	www.arb.ca.gov/cap/manuals.htm (for ordering information)	CA

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21	C/E	Metal Parts and Products Training Program	1-day training course by the State of California Air Resources Board for air pollution professionals detailing the industry.	www.arb.ca.gov/Training/230.htm	CA
22	C/E	Metal Container, Closure, and Coil Coating Training Program	One-day training course by the State of California Air Resources Board for air pollution professionals detailing the industry.	www.arb.ca.gov/Training/230_3.htm	CA
23	C	A Primer on Waterborne Coatings	A publication from the State of Georgia Pollution Prevention Assistance Division (P ² AD) on switching from solvent-based coatings to waterborne coatings to reduce costs and VOC emissions.	www.ganet.org/dnr/p2ad/pblcat/ons/6_wtrbrn.html	GA
24	C	Powder Coating	A publication from the State of Georgia Pollution Prevention Assistance Division (P ² AD) on switching from a wet spray painting system to a powder coating system to reduce cost and VOC emissions.	www.ganet.org/dnr/p2ad/pblcat/ons/5_powder.html	GA
25	C	Pollution Prevention Tips for Spray Painters	A publication from the State of Georgia Pollution Prevention Assistance Division (P ² AD) on reducing waste and costs at companies which apply paint using spray guns.	www.ganet.org/dnr/p2ad/pblcat/ons/paintin2.html	GA

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	C	Surface Coating/Machine Shop Operations	A 27-page guide providing information about Iowa 's Air Emissions Inventory Questionnaire. It is directed at the surface coating/machine shop operations.	Iowa Waste Reduction Center 75 Biology Research Complex University of Northern Iowa Cedar Falls, IA 50614-0185 (800) 422-3109 or (319) 273-2079	IA
26	C	Guide to the Iowa Permit by Rule for Small Spraying Operations	A step-by-step guide to completing Iowa's One or Three Gallon Permit by Rule. The permit by rule is a simpler permitting option available to small surface coating operations in Iowa.	Iowa Waste Reduction Center 75 Biology Research Complex University of Northern Iowa Cedar Falls, IA 50614-0185 (800) 422-3109 or (319) 273-2079 www.iwrc.org/summaries/1gPB_R.cfm www.iwrc.org/summaries/3gPB_R.cfm www.iwrc.org/summaries/PBRIog.cfm	IA
27		Painting and Coating Compliance Enhancement (PACE)	The Iowa Waste Reduction Center, in a cooperative effort with U.S. EPA's Design for the Environment program, developed the Pollution Prevention for Painting and Coating Compliance Enhancement (PACE) program focused on improving efficiency and pollution prevention in the painting and coating industry. Provides hands-on training opportunities, on-site technical assistance, equipment resource availability, and ongoing research efforts.	www.iwrc.org/programs/pace.cfm	IA

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28		Small Business Compliance Alliance Environmental Assistance	Iowa Waste Reduction Center incorporates on-site reviews, applied research, and hands-on training into a free and confidential assistance program. IWRC has developed several different modules of an overall environmental model matrix that adapts to the needs of partner or participant programs.	www.iwrc.org/programs/sbca.cfm	IA
29		Small Business Pollution Prevention Center	The Small Business Pollution Prevention Center (SBPPC) is funded by the US EPA and conducts applied research and educational outreach projects. The SBPPC works with small businesses and technical assistance providers in Iowa, regionally and nationally.	www.iwrc.org/programs/SBPPC.cfm	IA
30		Process Training	The Iowa Waste Reduction Center's Process Training program focuses on improving efficiency, pollution prevention and environmental compliance at businesses with spray finishing operations. A multifaceted approach based on education, demonstration and research is used to address the needs of businesses that perform painting and coating. Components of the program include process training sessions, on-site training & technical assistance, equipment resource availability and outreach efforts. Services are <i>free of charge, confidential</i> and <i>non-regulatory</i> .	www.iwrc.org/programs/ptrain.cfm	IA

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31		Spray Techniques Analysis and Research (STAR®)	The STAR® program is dedicated to improving the overall efficiency of manual spray coating operations by enhancing the techniques of spray technicians around the country.	www.iwrc.org/programs/star.cfm	IA
32		Program to Enhance Environmental Recordkeeping	This program is provided by the Iowa Waste Reduction Center as a place for facilities to record environmental data for use in recordkeeping and reporting. Air emissions are calculated and reports for total facility emissions as well as individual spray booth air emissions.	www.iwrc.org/NewPEER/index.cfm	IA
33		Pollution Prevention Metal Finishing	Pollution Prevention Services were established to help Iowa organizations and companies adopt sustainable business practices. The Pollution Prevention Services offers no-cost, confidential and non-regulatory assistance designed to improve a company or organization's bottom line while improving the environment. Organizations working with Pollution Prevention Services have access waste reduction assistance, technology transfer opportunities, case studies, vendor lists, technical conferences and workshops, and waste exchange services.	www.iowadnr.com/waste/p2/metal.html	IA

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34		Pollution Prevention Implementation Plan for Metal Manufacturers	<p>The Pollution Prevention Implementation Plan for Metal Manufacturers was prepared as part of the Iowa Pollution Prevention Initiative (IPPI) pilot project. The Pollution Prevention Implementation Plan (PIIP) for Metal Manufacturers provides:</p> <ul style="list-style-type: none"> • An overview of pollution prevention options, • A review of the costs and benefits associated with these options, and • Steps for pollution prevention implementation and financing 	www.iwrc.org/pubs/IPPIMetal.pdf	IA
35	C	Environmentally Conscious Painting	A guide to better spray painting practices, with information on different coating types.	<p>Kansas State University Engineering Extension Programs 133 Ward Hall, Manhattan, KS 66506-2508, (913) 532-6026</p> <p>www.sbeap.org/ppi/publications/envpaintbook.pdf</p>	KS
36	C	Metal Finisher's Assistance Program	The New England Environmental Assistance Team (NEEAT) provides the metal finishing industry in New England with information on how to comply with environmental requirements and how to prevent pollution by minimizing waste.	www.epa.gov/NE/assistance/metalfinishing/index.html	New England

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	C/I	Surface Coating Operation with Emissions of Less than 25 Tons/Year	Surface coating operations level 2- New Source Review reference and technical document targeted to small businesses.	New Jersey Dept. of Environmental Protection, Office of Permit Information and Assistance, Small Business Assistance Program 401 E. State St. CN 423 Trenton, NJ 08625, (609) 292-3600	NJ
37		State Of The Art (SOTA) Manual for Surface Coating Operations	<p>The New Jersey Air regulations require newly constructed, reconstructed, or modified equipment and control apparatus to incorporate advances in the art of air pollution control developed for the kind and amount of air contaminant emitted by the applicant's equipment or control apparatus.</p> <p>The Air Pollution Control Act of New Jersey directed the Department to publish technical manuals that would include performance levels with respect to air pollution control, to be used by some permit applicants for demonstrating advances in the art of air pollution control.</p> <p>"Advances in the art of air pollution control" is commonly referred to as "State-of-the-Art" or SOTA. SOTA generally includes performance limits that are based on air pollution control technology, pollution prevention methods, and process modifications or substitutions that will provide the greatest emission reductions that are technologically and economically feasible.</p>	www.state.nj.us/dep/aqpp/downloads/sota/sota7.pdf	

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	C/I	Surface Coating Processes	Four one-page fact sheets that address the problems in New York concerning the VOC content of surface coatings. There is one fact sheet for each of the four designated regulated areas in the state. Each one tells which processes are regulated as well as compliance options, compliance dates, recordkeeping requirements, and permit requirements.	Environmental Ombudsman Unit Empire State Development Division of Small Business Attn: Antonio Rodriguez 633 3 rd Ave., 32 nd Floor New York, NY 10017 (800) 782-8369	NY
	C/I	Summary of Title 6 NYCRR Part 228 Surface Coating Processes	A four-page summary that gives general information about surface coating processes subject to state rules and regulations. This report gives information about compliance, control requirements, reports, recordkeeping, sampling, analysis, prohibition of sale, and the handling, storage, and disposal of VOC's.	Environmental Ombudsman Unit Empire State Development Division of Small Business Attn: Antonio Rodriguez 633 3 rd Ave., 32 nd Floor New York, NY 10017 (800) 782-8369	NY
38	C	Environmental Compliance & Pollution Prevention Guide for the Metal Finishing Industry	A guide developed by the New York State Department of Environmental Conservation's Pollution Prevention Unit which includes a summary of regulations, environmental compliance requirements, and pollution prevention methods for metal finishers.	www.dec.state.ny.us/website/ppu/ecppmetl.pdf	NY

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39	C	Environmental Self-Assessment for the Metal Finishing Industry	A checklist developed by the New York State Department of Environmental Conservation's Pollution Prevention Unit for determining environmental compliance and pollution prevention opportunities for metal finishers.	www.dec.state.ny.us/website/ppu/esametl.pdf	NY
40	C/I	Spreadsheet to Calculate MACT Compliance (Draft)	Example of Facilitywide Spreadsheet To Calculate Compliance with MMP&P Pound HAP to Gallon Solids Limit	www.ecn.purdue.edu/CMTI/	
41	C/I	VOC & HAP Emission Calculations For Paints, Solvents, and Other Evaporative Loss Products	This guidance document provides directions for a VOC/HAP Air Emission Calculation Spreadsheet that may be used to calculate emissions from paints, solvents, and other evaporative loss products. This spreadsheet is an Excel document and a link can be found at the bottom of the page.	www.deq.state.ne.us/Publications/0/29e92d2d552b4d2106256dc1006208fd?OpenDocument	NE

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42		VOC Calculators	<p>The Paints and Coatings Resource Center has prepared a series of VOC calculators that are designed to aid in the calculation of the VOC and HAP contents of paints. These include:</p> <ul style="list-style-type: none"> • Calculator 1. VOC, HAP Emissions per Gallon of Coating Less Water Where the Weight of Water per Gallon is Known. • Calculator 2. VOC, HAP Emissions per Gallon of Coating Less Water Where the Percent Water by Weight is Known. • Calculator 3. VOC, HAP Emissions per Gallon of Solids. • Calculator 4. VOC, HAP Emissions per Weight of Solids. 	www.paintcenter.org/newvoccalc.cfm	
43		Surface Coating of Miscellaneous Metal Parts Overview Brochure	<p>This overview brochure (for the proposed rule) is prepared by the The Indiana Small Business Assistance Program (Administered by the Indiana Department of Environmental Management's Office of Pollution Prevention and Technical Assistance) in conjunction with the Indiana Clean Manufacturing Technology and Safe Materials Institute at Purdue University.</p>	http://www.ecn.purdue.edu/CM/TI/NESHAP/MMP%20Brochure.doc	IN

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44		Summary of EPA MACT Standards	This presentation provides a summary of the proposed rules for Miscellaneous Metal Parts Products Surface Coating and Plastic Parts and Products Surface Coating. Prepared by the Clean Manufacturing Technology and Safe Materials Institute at Purdue University.	www.ecn.purdue.edu/CMTI/IN-Tech1/Metal&Plastic%20Mact%203-24-03.pdf	IN
45		Summary of Miscellaneous Metal Parts and Products NESHAP	These summaries of the proposed rule were prepared by EPA/OAQPS/ESD	www.epa.gov/ttn/atw/coat/misc/update040902.ppt www.epa.gov/ttn/atw/coat/misc/update051002.ppt	EPA
46		Miscellaneous Metal Parts and Products Surface Coating and P2 Opportunities for the Transportation Industry	Prepared by the Illinois EPA, this summary of the rule also presents P2 opportunities as well as a discussion regarding the MACT Hammer as it affects title V sources	www.epa.state.il.us/air/mact/metalparts/subpart-mmmm.ppt	IL
47		Calculations: VOC, HAP, Exempt Compounds	Ron Joseph and Associates provides answers to articles & questions on exempt solvents and compounds, permits, spray booths and spraybooth issues, spray guns, powder paint chemistry, coating stripping and de-painting, etc.	www.ronjoseph.com/Q&A/calculations_qa.htm	

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48		Metal Painting and Coating Operations	The Northeast Waste Management Officials' Association (NEWMOA) designed this manual to provide environmental assistance staff with a basic reference on the metal coatings process. The purpose of the manual is to enable assistance providers to rely on a single publication to jump start their research on pollution prevention for companies with which they are working. The manual is explicitly designed to be useful to assistance professionals with experience working with metal coating operations and those who have never before encountered this process. The U.S. Environmental Protection Agency Pollution Prevention Division funded this manual as a model of a comprehensive packet of pollution prevention (P2) information on a single industry.	www.wmrc.uiuc.edu/main_sections/info_services/library_docs/manuals/coatings/toc.htm	
49		Federal CAA Toolbox, Surface Coating	The Air Force Center for Environmental Excellence provides Air Force leaders with the comprehensive expertise and professional services necessary to protect, preserve, restore, develop and sustain the nation's environmental and installation resources. Toolbox provides a methodology for emissions estimation and sample calculations for surface coating operations.	www.afcee.brooks.af.mil/eq/air/caatoolbox/html/federal/emisest/surfcoat.html	

* C = compliance, E = enforcement, I = implementation.